AMENDMENTS TO THE CLAIMS

1	1. (Currently Amended) A serial communications <u>link</u> system comprising:
2	a scrambler device for receiving an original data bit stream and converting
3	said original converting original received data bit stream into scrambled data; and
4	an ECC encoder device for converting said scrambled data into ECC-encoded
5	data.
1	2. (Original) The system as recited in Claim 1, further comprising:
2	a serializer for converting said ECC-encoded data into serialized data;
3	wherein the ECC-encoded data includes frame alignment information; and
4	the system further comprises a receiver for receiving said serialized data and
5	converting the serialized data into data frames based upon the frame alignment information.
1	3. (Currently Amended) The system as recited in Claim 2, wherein the receiver
2	comprises:
3	a frame-recoverer for converting said serialized data into data frames;
4	an ECC decoder for converting said data frames into ECC-decoded data and
5	error indications; and
6	a serambler descrambler for converting said ECC-decoded data into de-
7	scrambled data.
1	4. (Previously Presented) The system as recited in Claim 3, wherein said frame-
2	recoverer uses said error indications in converting said serialized data into data frames.
1	5. (Original) The system as recited in Claim 1, wherein said ECC encoder applies an
2	error correction code in converting said scrambled data into said ECC-encoded data.
	2

1	6. (Currently Amended) A serial communications method, comprising the steps of:
2 3	receiving an original data bit stream at a scrambler device, said original data bit stream comprising data bits and other bits;
4 5	converting said original-received data bit stream into scrambled data, by said
6	scrambler device, prior to performing another data function on said original data bit stream;
7	and
8	converting said scrambled data into ECC-encoded data.
1	7. (Original) The method as recited in Claim 6, further comprising the steps of:
2	generating a serial stream of the ECC-encoded data; and
3	transmitting said serial stream.
1	8. (Original) The method of Claim 7, wherein:
2	the ECC-encoded data includes frame alignment information; and
3	the method further comprises receiving said serialized data and converting
4	said serialized data into data frames based upon said frame alignment information.
1	9. (Original) The method of Claim 7, further comprising:
2	receiving said serialized data;
3	converting said serialized data into data frames;
4	converting said data frames into ECC-decoded data and error indications; and
5	converting said ECC-decoded data into de-scrambled data.
1	10. (Original) The method of Claim 9, wherein the step of converting the serialized
2	data comprises converting the serialized data into data frames based upon said error
3	indications.

1	11. – 33. (canceled)
1	34. (Currently Amended) A serial communication <u>link</u> system comprising:
2	a scrambler device programed to convert a received bit stream, having data
3	bits therein, for converting received data into scrambled data, said received bit stream data
4	being without redundant bits inserted by said serial communication system and without being
5	encoded prior to being scrambled or being re-encoded by said serial communiction system;
6	and
7	an ECC encoder programmed to convert for converting said scrambled data
8	into ECC-encoded data.